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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/064,244	06/25/2002	Jeffrey Lee Thompson	24-NS-06054	8427	
23465	7590 12/03/2003		EXAM	INER	
JOHN S. BEULICK			BOCHNA, DAVID		
C/O ARMSTRONG TEASDALE, LLP ONE METROPOLITAN SQUARE			ART UNIT	PAPER NUMBER	
SUITE 2600			3679		
ST LOUIS, MO 63102-2740			DATE MAILED: 12/03/2003	DATE MAILED: 12/03/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	oplicant(s)				
•	10/064,244	THOMPSON, JEFFREY LEE				
Office Action Summary	Examiner	Art Unit				
ä	David E. Bochna	3679				
The MAILING DATE of this communicat Period for Reply	ion appears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR	REPLY IS SET TO EXPIRE 3 M	MONTH(S) FROM				
THE MAILING DATE OF THIS COMMUNICA  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic  - If the period for reply specified above is less than thirty (30) da  - If NO period for reply is specified above, the maximum statutor  - Failure to reply within the set or extended period for reply will,  - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).  Status	TION. 'CFR 1.136(a). In no event, however, may a ation. ys, a reply within the statutory minimum of thiry period will apply and will expire SIX (6) MO by statute, cause the application to become A	reply be timely filed into (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed o	n <u>01 November 2003</u> .					
2a) This action is <b>FINAL</b> . 2b)	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the appl	⊠ Claim(s) <u>1-20</u> is/are pending in the application.					
4a) Of the above claim(s) is/are v	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-6 and 12-20</u> is/are allowed.	☑ Claim(s) <u>1-6 and 12-20</u> is/are allowed.					
6)⊠ Claim(s) <u>7-11</u> is/are rejected.	☑ Claim(s) <u>7-11</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the E	xaminer.					
10) The drawing(s) filed on is/are: a)	)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
• • • • • • • • • • • • • • • • • • • •	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
•	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by	the Examiner. Note the attache	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc		§ 119(a)-(d) or (f).				
<ul><li>2. Certified copies of the priority dod</li><li>3. Copies of the certified copies of the application from the International</li></ul>	cuments have been received in a he priority documents have been Bureau (PCT Rule 17.2(a)).	n received in this National Stage				
* See the attached detailed Office action for 13) ☐ Acknowledgment is made of a claim for 0 since a specific reference was included in 37 CFR 1.78.  a) ☐ The translation of the foreign language.	lomestic priority under 35 U.S.C the first sentence of the specifi	. § 119(e) (to a provisional application) cation or in an Application Data Sheet.				
14) Acknowledgment is made of a claim for confidence was included in the first sentence.	Iomestic priority under 35 U.S.C	S. §§ 120 and/or 121 since a specific				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449) Paper	948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

### Claim Objections

1. Claim 7 is objected to because of the following informalities:

Claim 7, line 9, it is unclear if "a pip section flange notch" is the same "at least one notch" recited in lines 2-3 of claim 7. Appropriate correction is required.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 7-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese
  Patent 0013259 in view of Chaix et al.

In regard to claim 7, Japanese Patent '259 discloses a coupling spring for coupling a first pipe section flange 2 to a second pipe section flange (see fig. 6), each flange comprising at least one notch (notch in 2 accepting 9), the spring ring comprising:

a body 8 having a first surface and an opposing second surface, the body comprising a main bore and a plurality of bolt bores (holes for 5) extending therethrough from the first surface through the opposing second surface, the main bore configured to receive a pipe section 1 therethrough, the bolt bore configured to receive a fastener 5 therethrough;

a plurality of pivot bearings 9 (see fig. 11, 12) extending from the first surface, each pivot bearing 9 configured to engage the pipe section flange notch. Japanese Patent '259 also discloses axially stressing the bolts 5 in order to hold the coupling together, but Japanese Patent

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'259 does not disclose using a plurality of bolt bore seats coaxially aligned with the bolt bores. Chaix et al. teaches providing a plurality of bolt bore seats 56, 58 coaxially aligned with bolt bores in order to center the bolts within the hole allowing only an axial load to be placed on the bolts, thereby eliminating a chance of bending (see col. 3, lines 25-30). Therefore it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the bores of Japanese Patent '259 to include bore seats, as taught by Chaix et al., so that the bolts are only axially stressed, thereby reducing the chance of bending.

In regard to claim 8, the spring ring 8 is substantially cylindrical.

In regard to claim 9, the plurality of pivot bearings 9 are equally spaced circumferentially around the spring ring first surface.

In regard to claim 10, the plurality of bolt bore seats 56, 58 are substantially spherical.

In regard to claim 11, further comprising a bolt 46 (of Chaix et al.) extending through each bolt bore, each bolt comprising at least one spherical bearing (bottom of 48) sized to mate with a bolt bore seat 56.

# Allowable Subject Matter

4. Claims 1-6 and 12-20 are allowed.

## Response to Arguments

5. Applicant's arguments with respect to claims 7-11 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Bochna whose telephone number is (703) 306-9040. The examiner can normally be reached on 8-5:30 Monday-Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (703) 308-1159. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-2168.

David Bochna Primary Examiner

Art Unit 3679

**November 25, 2003**